

Wisconsin Entomological Society

Newsletter

Volume 26, Number 1

March 1999

Announcing the 1999 NABA-Xerces Fourth of July Butterfly Count

The 25th annual NABA-Xerces 4th of July Butterfly Count will be held this summer. These counts are fun-filled but they also track the butterfly populations of North America. Volunteers select a count area with a 15-mile diameter and conduct a one-day census of all butterflies sighted within that circle. These counts are usually held in the few weeks before or after the 4th of July.

The North American Butterfly Association (NABA) organizes the counts and publishes their annual reports. These reports provide important information about the geographical distributions and population sizes of the species counted. Comparisons of the results over the years monitor changes in butterfly populations and reveal effects of weather and habitat change on the different species. In some years the butterfly count shows dramatic changes in butterfly populations, while other years indicate little fluctuation in butterfly numbers. Either way, the butterfly counters are always curious about what next year's results will be.

No matter how much or how little butterfly watching you've done, the results of butterfly counting can be surprising and interesting. If a count already exists in your area,



please join them for a day of fascinating butterfly counting. If there is no count in your area, you may start your own if you know how to identify the butterflies. Otherwise, inspire a nature center or butterfly club to start one for you.

For more information on the count program, counts in your area, how to conduct a count, and NABA, please consult NABA's website at www.naba.org, or send a self-addressed, stamped business envelope to: NABA, 4 Delaware Rd., Morristown, NJ 07960 USA. ☺

1998 Wisconsin Lepidoptera Season Summary

by Les Ferge

The onset of the season was one of the earliest in memory, comparable to the early springs of 1977 and 1987. Emergence of *Boloria freija*, *Boloria frigga*, *Oeneis jutta*, and *Erebia discoidalis* was more than two weeks ahead of "normal" in northern bogs and a full month earlier than last season.

The Swengels reported record early dates for *Incisalia trus* (5 May, Wood Co.) And *Lycaeides melissa samuelis* (13 May, Jackson Co.), and observed that northwestern Wisconsin seemed more advanced than southern Wisconsin. Ferge and

Please see LEPIDOPTERA, Page 4

The Monarch's Secret Hideaway...

Little did the Purepecha Indians of Central Mexico know that the American who appeared in their village in 1975 would solve an ancient mystery...where their beloved Monarch butterflies flew off to in spring. The man was Kenneth C. Brugger, an amateur naturalist from Kenosha, WI who was a textile consultant for Jockey International in Mexico City.

One day in 1973, Brugger saw an ad in a Mexican newspaper, placed by University of Toronto scientist, Fred Urquhart, who was looking for volunteers to help him track the annual migration of Monarchs.

Please see MONARCH, Page 8

1999 Dues Notice

Enclosed in this newsletter is your dues envelope for 1999. Your prompt attention will be most appreciated. Dues are to be sent directly to the treasurer, Tom Rocheleau, 3100 Buena Vista St., Madison, WI 53704. To determine your status, please check the address label on this newsletter. Appearing after your name will be the last year dues are paid for and your membership category (Individual, Family, Sustaining, or Patron). Also be sure to notify us of any address changes or corrections when you send in your dues or notify Les Ferge at the address below. ☺

The Wisconsin Entomological Society Newsletter is published three times a year, at irregular intervals. It is provided to encourage and facilitate the exchange of information by the membership, and to keep the members informed of the activities of the organization. Members are strongly encouraged to contribute items for inclusion in the newsletter. Please send all news items, notes, new or interesting insect records, season summaries, and research requests to the editor:

Janice Stiefel, W6311 Mullet Lane, Plymouth, WI 53073. e-mail: jstiefel@excel.net

NOTE: Please report any address changes to Les Ferge, 7119 Hubbard Ave., Middleton, WI 53562. e-mail: lesferge@juno.com

1998 Photo Salon Winners



Photo: Karl Legler

Ringed Boghunter (*Williamsonia lintneri*) — Karl Legler, First Place

This is a new dragonfly species for Wisconsin. Discovered by Karl Legler in Jackson Co. on May 9, 1998. Previously, this species' world population was known only from about 30 sites in New England.

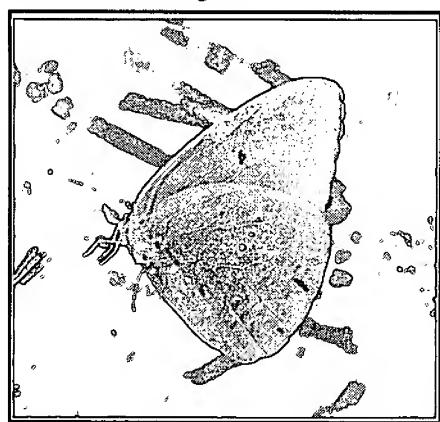


Photo: Janice Stiefel

Male Cloudless Sulphur Butterfly
(*Phoebis sennae*)

Janice Stiefel, Second Place

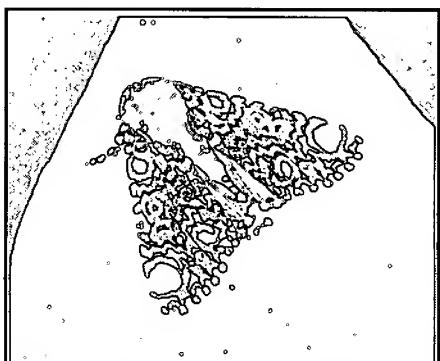
Photographed 9/5/98, Door Co. WI
Nikon N50, 55mm lens, Kodachrome 200

Photo: Janice Stiefel

Harris's Three Spot Moth
(*Harrisimemna trisignata*)

Janice Stiefel, Third Place

Photographed 6/14/97, Sheboygan Co. WI
Nikon N50, 55mm lens, Kodachrome 200Color Guide to
Common Dragonflies
of Wisconsin

Revised Edition 1998
by Karl & Dorothy Legler
and Dave Westover

This paperback guide covers 76 species of Wisconsin dragonflies. The guide has 64 pages with 167 color photographs and illustrations. The text also contains 64 line drawings. Each species photo is accompanied by text and graphics, breeding habitat, Wisconsin range map, flight period, identification, abundance, actual length, and brief life-history notes. The guide is designed for nature enthusiasts with no entomological background. The guide is available for \$18.95 + \$1.00 postage. Make check payable to Karl Legler and send to 429 Franklin St., Sauk City, WI 53583. Phone: (608) 643-4926. ☎

Website and e-mail is to the left.

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Website: <http://userpages.chorus.net/karlndot/>

"ET" ... The Praying Mantis
by Roy Lukes

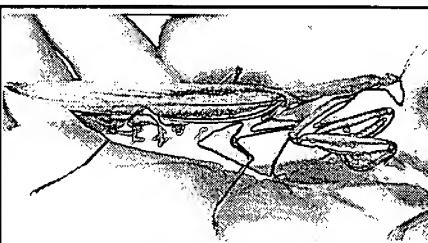
An alert person at the Sister Bay Yacht Club and Resort helped me to relive one of the most interesting experiences I have ever had during my years of helping people of various ages learn more about nature.

The phone call told of a Praying Mantis being seen on the outside wall of the yacht club. Yes, they had captured it! My first question was, "Are you sure it isn't a walking stick?" After being assured that indeed it was a Praying Mantis, and me biting my tongue for asking my doubting question, I got to wondering what on earth a genuine Praying Mantis was doing as far north as Sister Bay.

Within a few days the beautiful 3 in. European Mantid (*Mantis religiosa*) was hypnotically peering at us from the end of a Basswood stick, perhaps wondering when its next meal would arrive.

An advertisement I read in a science education magazine in 1960 told of Praying Mantis egg cases for sale. Soon I had several placed inside one of our terrariums. Surely I had many doubting Thomases in my classes, hopelessly staring into the terrarium at school day after day to see the lifeless and hopeless plastic, foam-like Mantis egg cases.

Then one warm, late spring morning there came a "WHOOPEE!" from the students that must have carried throughout most of the junior high school in Wisconsin Rapids. The case was full of "teeny weeney" baby Praying Mantises. Finally they had hatched. The students believed me and my spirits soared.

Female Praying Mantis (*Mantis religiosa*)
Photo: Roy Lukes

Please see MANTIS, Page 3

MANTIS, from Page 3

It wasn't long before the youngsters realized, by their careful observing, that the tiny insects were eating each other. "They're cannibalistic! What should we do?"

One by one, the students took their own pet Praying Mantis home where they would attempt to raise it. How eagerly the quarter-inch-long creatures accepted small bits of raw meat dangled in front of them on a piece of thread. Flies quickly disappeared from the glass case.

Our lone surviving Mantis at school grew quickly and became quite the pal to everyone. "It" was a terror to other insects but perfectly harmless to humans. In retrospect,

this may have been one of the most important lessons my 140 science students learned that year.

How thrilled I was to watch what at first were very squeamish students eventually allow the fearsome-looking insect crawl up their arm or perch on the tip of an outstretched finger.

What really developed my initial interest in the Praying Mantis was a fascinating chapter, "Dinah Was a Mantis" that I read in Edwin Way Teale's book, *Near Horizons, The Story of an Insect Garden*, published by Robert Hale Limited (London) in 1947.

Following our highly successful adventure with the Praying Mantis, I wrote a letter to Mr. Teale describing in detail the fun and learning that, in a way, he had helped to promote. Naturally I had hoped to receive a reply from the author but never did. Later, after reading most of the great books he wrote on nature, I came to realize how unusually busy a person he was.

Had the movie, "ET" been produced when my students and I were having the times of our lives with the pet Mantis perhaps they, too, would have nicknamed it "ET," as we have done today—years later. The

triangular-shaped head and large compound eyes of the Praying Mantis immediately reminded us of the lovable "ET" of movie fame. Only one species of mantid, of the 1,800 worldwide, is native to the United States, the Carolina Mantid. The only mantids fairly common in parts of the northern states are two introduced species—the European Mantid (about two inches long) and the Chinese Mantid, (about four inches long).

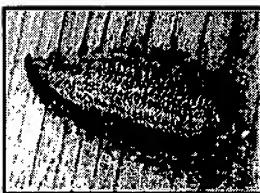
The identifying feature of our European Mantid is the black-ringed spot beneath both of its fore coxae, those parts of the front legs nearest the thorax. These legs are heavily armored with spines and teeth and can move with great speed to capture its prey. These include many kinds of insects regarded by people to be helpful in some cases and harmful in others. The mantids don't choose. They simply eat.

Mantids' very strong mouth parts are capable of biting through the quite hard, plastic-like, chitinous exoskeletons of insects such as beetles and wasps. The long middle and hind legs give the Praying Mantis the ability to remain motionless for many minutes at a time, its front legs, "raised in prayer," as it patiently waits for its prey insects to unsuspectingly crawl or land near the perpetually hungry mantis. Obviously its praying-like attitude is reflected in the "religiosa" species name of the European Mantid.

In light of the Praying Mantis' amazing front leg speed in seizing its prey, the mantis is otherwise a slow-moving insect. The winged adults' flight is short and labored.

What a thing of beauty to see a mantid slowly turn its head and watch your every movement as though thoroughly captivated. I wonder whether the Mantis is the only insect able to turn its head and look over its shoulder like a human. Little wonder it is such an enchanting creature.

And so it was with our "ET," like Edwin Way Teale's *Dinah*, "Life drifted into death with the calm transition of day passing through twilight into darkness." Everyone should have at least one pet Praying Mantis in their life, an emotional thrill, an enriching



Praying Mantis egg case
Photo: Janice Stiebel

From the Editor's Desk ...

It is an honor and a privilege to be the new editor of the Wisconsin Entomological Society Newsletter. Les Ferge has faithfully edited this publication for over eleven years and I thank him for his efforts on behalf of the organization. He has performed a valuable service in educating all of us and is a special inspiration to me. If it weren't for Les, I would have given up long ago in my moth identification project. I can't thank him enough.

Over the years I have studied both plants and insects and have often found that insects are considered insignificant in their relationship to plants, unless they become pests, of course. There seems to be little interest in learning some of these secrets of the natural world. That is one reason I agreed to edit this newsletter. I know there are many anecdotes of insect observations and where else can we learn, but in a publication such as this? Therefore, I encourage everyone to share what they have learned and discovered — no matter if you are an amateur or a professional entomologist.

Janice Stiebel, Editor

treat, a form of educational therapy at its best, a genuine ET to top them all. ☺

Roy has been writing nature columns for over 30 years in various publications. He and his wife, Charlotte, operate their Nature-Wise business out of their home in the woods near Egg Harbor, WI. They teach nature classes, present illustrated lectures, and sell their nature photographs while trying to KEEP DOOR COUNTY WILD! Presently, they are working on their fifth book, scheduled for publication later this year. Roy and Charlotte can be reached at 3962 Hillside Rd., Egg Harbor, WI 54209-9432 — e-mail: lukes@dcwls.com or at his website: <http://doorbell.net/lukes/index.htm>



LEPIDOPTERA, from Page 1

Parkinson also noted this, as moths collected in Burnett County in mid-May were as much as three to four weeks earlier than usual. Summer temperatures were consistently above average, with severe storms and heavy rains in June. Many butterfly species were scarcer than usual. However, the Swengels reported unprecedented high numbers of *Speyeria idalia* and *aphrodite* in their prairie study sites, except for Muralt Prairie, where the *idalia* population is in grave trouble.

Ferge and Parkinson found relatively low numbers of late season and adult hibernating moth species. *Noctua pronuba*, the introduced European Noctuid, has spread statewide.

Monarchs returned early, with multiple individuals seen by Swengels from 18-22 May in Sauk, Jackson and Burnett Counties. Despite this seemingly good early start, Monarch numbers were low throughout the season. Ebner noted small flights in August and September, with the last individual seen on 11 October in Waukesha County.

More species of migrant butterflies were seen than in the past several years, with *Hylephila phyleus*, *Euptoleta claudia* and *Junonia coenia* the most widespread. *Atalopedes campestris*, *Pontia protodice*, *Colias cesonia*,

Eurema lisa, *Nathalis io*, and *Strymon melinus* were recorded in southern counties in rather low numbers—mostly later in the season. A few individuals of *Phoebeis sennae eubule* were seen in Grant County and one stray was documented in Door County (see photo on Page 2). Among the moths, *Hyles lineata* became widespread and common by September.

Individuals of several southern Noctuid moth species were collected, including *Anticarsia gemmatalis*, *Mocis texana*, *Rachiplusia ou*, *Pseudoplusia includens*, and *Magusa orbifera*.

New county records are indicated by county names appearing in CAPITAL letters.

ABBREVIATIONS: SNA = State Natural Area

SFA = State Fishery Area

SF = State Forest

CF = County Forest

Contributors Cited: **Coordinator: Les Ferge**

| | | | |
|-----|--------------------|-----|-------------------|
| RJB | Robert J. Borth | JAE | James E. Ebner |
| CBF | Carol B. Ferge | LAF | Leslie A. Ferge |
| JCP | James C. Parkinson | TR | Tom Rocheleau |
| JJS | Janice J. Stiefel | SAS | Ann/Scott Swengel |

| MONA No. | SPECIES NAME | COUNTY | SITE NAME | DATE | CONTR |
|--------------------|---|-------------|--------------------------------|-------------|-------|
| BUTTERFLIES | | | | | |
| 3961 | <i>Erynnis persius</i> (Scudder) | Portage | Emmons Creek SFA | 6 May 1998 | TR |
| 4006 | <i>Oarisma powesheik</i> (Parker) | Green Lake | Puchyan Prairie SNA | 1 Jul 1998 | TR |
| 4013 | <i>Hylephila phyleus</i> (Drury) | Crawford | Prairie du Chien | 15 Aug 1998 | JCP |
| 4013 | <i>Hylephila phyleus</i> (Drury) | Crawford | Prairie du Chien | 28 Sep 1998 | CBF |
| 4013 | <i>Hylephila phyleus</i> (Drury) | Grant | Jamestown Twp. | 29 Aug 1998 | JCP |
| 4013 | <i>Hylephila phyleus</i> (Drury) | Grant | Cassville | 5 Sep 1998 | CBF |
| 4013 | <i>Hylephila phyleus</i> (Drury) | JEFFERSON | Lake Mills | 5 Sep 1998 | JCP |
| 4049 | <i>Atalopedes campestris</i> (Boisduval) | Crawford | Prairie du Chien | 28 Sep 1998 | LAF |
| 4049 | <i>Atalopedes campestris</i> (Boisduval) | Grant | Jamestown Twp. | 5 Sep 1998 | LAF |
| 4052 | <i>Problema byssus</i> (Edwards) | Grant | Cassville | 26 Jun 1998 | LAF |
| 4058 | <i>Poanes massasoit</i> (Scudder) | Trempealeau | Tamarack Creek Bog SNA | 27 Jun 1998 | LAF |
| 4064 | <i>Poanes viator</i> (Edwards) | Green Lake | Puchyan Prairie SNA | 1 Jul 1998 | TR |
| 4072 | <i>Euphyes dion</i> (Edwards) | Green Lake | Puchyan Prairie SNA | 1 Jul 1998 | TR |
| 4072 | <i>Euphyes dion</i> (Edwards) | Trempealeau | Tamarack Creek Bog SNA | 27 Jun 1998 | LAF |
| 4080 | <i>Atrytonopsis hianna</i> (Scudder) | DANE | Mazomanie Bluff Prairie | 27 May 1998 | TR |
| 4096 | <i>Amblyscirtes hegon</i> (Scudder) | Douglas | Oakland Twp. | 16 May 1998 | LAF |
| 4096 | <i>Amblyscirtes hegon</i> (Scudder) | Price | Fifield Twp. | 15 May 1998 | LAF |
| 4193 | <i>Pontia protodice</i> (Bdv. & LeConte) | Sauk | International Crane Foundation | 21-Aug-98 | SAS |
| 4224 | <i>Colias cesonia</i> (Stoll) | Sauk | International Crane Foundation | 23-Aug-98 | SAS |
| 4228 | <i>Phoebeis sennae eubule</i> (Linnaeus) | DOOR | Bailey's Harbor | 5 Sep 1998 | JJS |
| 4228 | <i>Phoebeis sennae eubule</i> (Linnaeus) | Grant | Jamestown Twp. | 5 Sep 1998 | LAF |
| 4228 | <i>Phoebeis sennae eubule</i> (Linnaeus) | Grant | Cassville | 5 Sep 1998 | LAF |
| 4248 | <i>Nathalis io</i> Boisduval | Crawford | Prairie du Chien | 16 Sep 1998 | JCP |
| 4253 | <i>Lycena dione</i> (Scudder) | Portage | Buena Vista Marsh | 25-Jun-98 | SAS |
| 4256 | <i>Lycena hyllus</i> (Cramer) | Grant | Jamestown Twp. | 5 Sep 1998 | LAF |
| 4256 | <i>Lycena hyllus</i> (Cramer) | Portage | Buena Vista Marsh | 27-May-98 | SAS |
| 4278 | <i>Satyrium acadicum</i> (Edwards) | Trempealeau | Tamarack Creek Bog SNA | 27 Jun 1998 | LAF |
| 4278 | <i>Satyrium acadicum</i> (Edwards) | WAUSHARA | Wild Rose | 22 Jul 1998 | TR |
| 4285 | <i>Satyrium liparops strigosum</i> (Harris) | Waukesha | Okauchee | 10 Jul 1998 | JAE |
| 4322 | <i>Incisalia augustinus</i> (Westwood) | MARQUETTE | Comstock Bog SNA | 9 May 1998 | LAF |
| 4324 | <i>Incisalia polios</i> Cook & Watson | CLARK | Foster Twp. | 25 Apr 1998 | LAF |
| 4325 | <i>Incisalia irus</i> (Godart) | EAU CLAIRE | Eau Claire County Forest | 06-May-98 | SAS |
| 4326 | <i>Incisalia henrici</i> (Grote & Robinson) | PRICE | Fifield Twp. | 1 May 1998 | CBF |
| 4326 | <i>Incisalia henrici</i> (Grote & Robinson) | Price | Fifield Twp. | 17 May 1998 | JCP |
| 4336 | <i>Strymon melinus</i> Hubner | Crawford | Prairie du Chien | 15 Aug 1998 | LAF |
| 4362 | <i>Everes amyntula</i> (Boisduval) | Burnett | Danbury | 16 May 1998 | LAF |

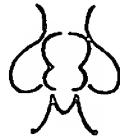
| MONA No. | SPECIES NAME | COUNTY | SITE NAME | DATE | CONTR |
|--------------|--|-------------|------------------------------|-------------|-------|
| 4374 | <i>Lycaeides idas nabokovi</i> Masters | Forest | Nashville Twp. | 24-Jun-98 | SAS |
| 4374 | <i>Lycaeides idas nabokovi</i> Masters | Langlade | Ainsworth Twp. | 24-Jun-98 | SAS |
| 4440 | <i>Junonia coenia</i> (Hubner) | Crawford | Prairie du Chien | 29 Sep 1998 | JCP |
| 4440 | <i>Junonia coenia</i> (Hubner) | Door | Bailey's Harbor | 18 Sep 1998 | JJS |
| 4440 | <i>Junonia coenia</i> (Hubner) | Grant | Dickeyville | 16 Sep 1998 | JCP |
| 4440 | <i>Junonia coenia</i> (Hubner) | Jackson | Jackson CF & Black River SF | 26-May-98 | SAS |
| 4440 | <i>Junonia coenia</i> (Hubner) | Waukesha | Okauchee | 9 Sep 1998 | JAE |
| 4447 | <i>Euptoieta claudia</i> (cramer) | Crawford | Hogback Prairie | 30-Jun-98 | SAS |
| 4447 | <i>Euptoieta claudia</i> (Cramer) | Crawford | Prairie du Chien | 5 Sep 1998 | LAF |
| 4447 | <i>Euptoieta claudia</i> (cramer) | Grant | Cassville | 28 Sep 1998 | LAF |
| 4452 | <i>Speyeria idalia</i> (Drury) | Crawford | Buena Vista Marsh | 01-Jul-98 | SAS |
| 4452 | <i>Speyeria idalia</i> (Drury) | Green | Hogback Prairie | 30-Jun-98 | SAS |
| 4452 | <i>Speyeria idalia</i> (Drury) | Portage | Buena Vista Marsh | 25-Jun-98 | SAS |
| 4452 | <i>Speyeria idalia</i> (Drury) | St. Croix | W of Roberts | 07-Jul-98 | SAS |
| 4466 | <i>Boloria frigga</i> (Thunberg) | Price | Fifield Twp. | 15 May 1998 | LAF |
| 4471 | <i>Boloria freija</i> Thunberg | Douglas | Oakland Twp. | 16 May 1998 | LAF |
| 4471 | <i>Boloria freija</i> Thunberg | Price | Fifield Twp. | 1 May 1998 | LAF |
| 4489 | <i>Chlosyne gorgone carlota</i> (Reakirt) | Jackson | Jackson CF & Black River SF | 13-May-98 | SAS |
| 4489 | <i>Chlosyne gorgone carlota</i> (Reakirt) | Portage | Buena Vista Marsh | 26-Aug-98 | SAS |
| 4596 | <i>Erebia discoidalis</i> (Kirby) | Price | Fifield Twp. | 1 May 1998 | LAF |
| 4611 | <i>Oeneis jutta ascerta</i> Masters & Sorenson | BURNETT | Webb Lake Twp. | 16 May 1998 | LAF |
| 4611 | <i>Oeneis jutta ascerta</i> Masters & Sorenson | Douglas | Oakland Twp. | 16 May 1998 | JCP |
| M O T H S | | | | | |
| GEOMETRIDAE | | | | | |
| 6583 | <i>Anacampptodes ephyraria</i> (Wlk.) | WAUSHARA | Lunch Creek Fen | 1 Jul 1998 | TR |
| 6595 | <i>Cleora projecta</i> (Wlk.) | PRICE | Fifield Twp. | 1 May 1998 | LAF |
| 6663 | <i>Paleacrita merricata</i> Dyar | TREMPEALEAU | Trempealeau | 26 Mar 1998 | LAF |
| 6704 | <i>Erastria coloraria</i> (F.) | Burnett | Kohler-Peet Barrens SNA | 15 May 1998 | LAF |
| 6704 | <i>Erastria coloraria</i> (F.) | Jackson | Black River Falls | 15 May 1998 | RJB |
| 6738 | <i>Euchaena milnei</i> McD. | Grant | Cassville | 26 Jun 1998 | LAF |
| 7140 | <i>Cyclophora nanaria</i> (Wlk.) | GREEN | Brooklyn State Wildlife Area | 28 Aug 1998 | TR |
| 7140 | <i>Cyclophora nanaria</i> (Wlk.) | WAUSHARA | Lunch Creek Fen | 11 Sep 1998 | TR |
| 7218 | <i>Thera contractata</i> (Pack.) | Door | Bailey's Harbor | 19-Sep-98 | JJS |
| 7433 | <i>Epirrita autumnata</i> henshawi (Swett) | DOOR | Bailey's Harbor | 17-Oct-98 | JJS |
| 7433 | <i>Epirrita autumnata</i> henshawi (Swett) | MARQUETTE | Comstock Bog SNA | 16 Oct 1998 | LAF |
| 7433 | <i>Epirrita autumnata</i> henshawi (Swett) | TREMPEALEAU | Trempealeau | 24 Oct 1998 | JCP |
| LASICAMPIDAE | | | | | |
| 7685 | <i>Heteropacha rileyana</i> Harv. | RICHLAND | Richwood Twp. | 14 Aug 1998 | JCP |
| SATURNIIDAE | | | | | |
| 7719 | <i>Anisota senatoria</i> (J. E. Smith) | MARATHON | Mosinee | 11 Jun 1998 | JCP |
| 7723 | <i>Anisota virginiensis</i> (Drury) | BURNETT | Danbury | 16 May 1998 | JCP |
| SPHINGIDAE | | | | | |
| 7775 | <i>Manduca sexta</i> (L.) | MARQUETTE | | 18 Sep 1998 | JCP |
| 7789 | <i>Ceratomia catalpae</i> (Bdv.) | Green | Brooklyn State Wildlife Area | 28 Aug 1998 | TR |
| ARCTIIDAE | | | | | |
| 8051 | <i>Crambida casta</i> (Pack.) | BURNETT | Kohler-Peet Barrens SNA | 24 Aug 1998 | LAF |
| 8051 | <i>Crambida casta</i> (Pack.) | COLUMBIA | Rocky Run Oak Savanna SNA | 10 Aug 1998 | TR |
| 8051 | <i>Crambida casta</i> (Pack.) | WAUSHARA | White River Wildlife Area | 15 Aug 1998 | TR |
| 8052 | <i>Crambida pura</i> B. & McD. | BURNETT | Kohler-Peet Barrens SNA | 24 Aug 1998 | LAF |
| 8136 | <i>Spilosoma dubia</i> (Wlk.) | WAUSHARA | Bass Lake Fen SNA | 17 Jun 1998 | TR |
| 8146 | <i>Epantheria scribonia</i> (Stoll) | Burnett | Namekagon Barrens | 16 May 1998 | RJB |
| 8162 | <i>Platarctia parthenos</i> (Harr.) | Burnett | Namekagon Barrens | 16 May 1998 | RJB |
| 8187 | <i>Grammia celia</i> (Saund.) | DANE | Mazomanie Bluff Prairie | 15 May 1998 | TR |
| NOCTUIDAE | | | | | |
| 8329 | <i>Idia diminuendis</i> (B. & McD.) | WAUSHARA | White River Wildlife Area | 17 Jul 1998 | TR |
| 8359 | <i>Macrochilo bivittata</i> (Grt.) | Marquette | Comstock Bog SNA | 10 Jul 1998 | LAF |
| 8366 | <i>Tetanolita mynesalis</i> (Wlk.) | DANE | Middleton | 17 Sep 1998 | LAF |
| 8368 | <i>Tetanolita floridana</i> (Sm.) | GREEN | Brooklyn State Wildlife Area | 10 Sep 1998 | TR |
| 8412 | <i>Melanomma auricinctaria</i> Grt. | DANE | Walking Iron Park | 29 Jul 1998 | TR |
| 8574 | <i>Anticarsia gemmatalis</i> Hbn. | MARQUETTE | Comstock Bog SNA | 16 Oct 1998 | LAF |
| 8592 | <i>Cissusa spadix</i> (Cram.) | COLUMBIA | Rocky Run Oak Savanna SNA | 19 May 1998 | TR |
| 8592 | <i>Cissusa spadix</i> (Cram.) | Trempealeau | Trempealeau | 24 Apr 1998 | LAF |
| 8699 | <i>Zale obliqua</i> (Gn.) | Burnett | Namekagon Barrens | 16 May 1998 | RJB |
| 8745 | <i>Mocis texana</i> (Morr.) | Marquette | Comstock Bog SNA | 16 Oct 1998 | LAF |
| 8792 | <i>Catocala vidua</i> (J. E. Smith) | MARQUETTE | Comstock Bog SNA | 18 Sep 1998 | JCP |
| 8796 | <i>Catocala nebulosa</i> Edw. | Green | Albany | 14 Aug 1998 | RJB |

| MONA No. | SPECIES NAME | COUNTY | SITE NAME | DATE | CONTR |
|----------|-----------------------------------|-----------|------------------------------|-------------|-------|
| 8841 | Catocala abbreviatella Grt. | Waushara | Wedde Creek SFA | 1 Jul 1998 | TR |
| 8844 | Catocala amestris Stkr. | Jackson | Black River Falls | 19 Jul 1998 | JCP |
| 8844 | Catocala amestris Stkr. | Waushara | Wedde Creek SFA | 17 Jul 1998 | TR |
| 8865 | Catocala praecincta G. & R. | WAUSHARA | Lunch Creek Fen | 17 Jul 1998 | TR |
| 8890 | Pseudoplusia includens (Wlk.) | Dane | Middleton | 25 Sep 1998 | LAF |
| 8895 | Rachiplusia ou (Gn.) | Dane | Middleton | 6 Sep 1998 | LAF |
| 8909 | Autographa rubida Otto. | Burnett | Danbury | 16 May 1998 | JCP |
| 8946 | Syngrapha microgamma (Hbn.) | Marathon | Hatley | 19 Jun 1998 | JCP |
| 9061 | Cerma cora Hbn. | Burnett | Danbury | 16 May 1998 | JCP |
| 9061 | Cerma cora Hbn. | Burnett | Namekagon Barrens | 16 May 1998 | RJB |
| 9061 | Cerma cora Hbn. | Columbia | Rocky Run Oak Savanna SNA | 14 May 1998 | TR |
| 9085 | Tarachidia semiflava (Gn.) | WAUSHARA | White River Wildlife Area | 17 Jul 1998 | TR |
| 9085 | Tarachidia semiflava (Gn.) | WAUSHARA | Wedde Creek SFA | 17 Jul 1998 | TR |
| 9089 | Tarachidia binocula (Grt.) | COLUMBIA | Rocky Run SNA | 19 May 1998 | TR |
| 9343 | Apamea apiformis (Gn.) | WAUSHARA | Bass Lake Fen SNA | 26 Jul 1998 | TR |
| 9344 | Apamea plutonia (Grt.) | WAUSHARA | Lunch Creek Wildlife Area | 17 Jun 1998 | TR |
| 9380 | Apamea relicina (Morr.) | WAUSHARA | White River Wildlife Area | 11 Sep 1998 | TR |
| 9396 | Eremobina claudens (Wlk.) | VILAS | Boulder Junction | 31 Jul 1998 | JCP |
| 9415 | Oligia bridghami (G. & R.) | LANGLADE | Summit Lake | 25 Aug 1998 | JCP |
| 9415 | Oligia bridghami (G. & R.) | VILAS | Boulder Junction | 2 Aug 1998 | JCP |
| 9415 | Oligia bridghami (G. & R.) | WAUSHARA | Bass Lake Fen SNA | 17 Jul 1998 | TR |
| 9427 | Meropleon diversicolor (Morr.) | BURNETT | Kohler-Peet Barrens SNA | 24 Aug 1998 | LAF |
| 9427 | Meropleon diversicolor (Morr.) | GREEN | Brooklyn State Wildlife Area | 28 Aug 1998 | TR |
| 9427 | Meropleon diversicolor (Morr.) | PRICE | Fifield Twp. | 21 Aug 1998 | LAF |
| 9427 | Meropleon diversicolor (Morr.) | WAUSHARA | Wild Rose | 26 Aug 1998 | TR |
| 9428 | Meropleon ambifuscum (Newman) | Marquette | Comstock Bog SNA | 28 Aug 1998 | LAF |
| 9428 | Meropleon ambifuscum (Newman) | WAUSHARA | Wild Rose | 11 Sep 1998 | TR |
| 9428 | Meropleon ambifuscum (Newman) | WAUSHARA | Lunch Creek Fen | 26 Aug 1998 | TR |
| 9428 | Meropleon ambifuscum (Newman) | WAUSHARA | Bass Lake Fen SNA | 31 Aug 1998 | TR |
| 9429 | Lemmeria digitalis (Grt.) | WAUSHARA | Wild Rose | 18 Sep 1998 | TR |
| 9429 | Lemmeria digitalis (Grt.) | WAUSHARA | Lunch Creek Fen | 29 Sep 1998 | TR |
| 9435 | Spartiniphaga inops (Grt.) | MARQUETTE | Comstock Bog SNA | 28 Aug 1998 | JCP |
| 9439 | Chortodes basistriga (McD.) | PRICE | Fifield Twp. | 21 Aug 1998 | LAF |
| 9443 | Chortodes defecta (Grt.) | WAUSHARA | Bass Lake Fen SNA | 1 Jul 1998 | TR |
| 9450 | Archanara subflava (Grt.) | Waushara | Bass Lake Fen SNA | 15 Aug 1998 | TR |
| 9450 | Archanara subflava (Grt.) | Waushara | Bass Lake Fen SNA | 17 Jul 1998 | TR |
| 9450 | Archanara subflava (Grt.) | WAUSHARA | Bass Lake Fen SNA | 26 Jul 1998 | TR |
| 9451 | Archanara laeta (Morr.) | GRANT | Blue River | 14 Aug 1998 | LAF |
| 9464 | Papaipema cerina (Grt.) | Richland | Richwood Twp. | 16 Sep 1998 | JCP |
| 9464 | Papaipema cerina (Grt.) | Waukesha | Eagle | 13 Sep 1998 | JCP |
| 9464 | Papaipema cerina (Grt.) | WAUSHARA | Wild Rose | 11 Sep 1998 | TR |
| 9464 | Papaipema cerina (Grt.) | WAUSHARA | Wild Rose | 31 Aug 1998 | TR |
| 9466 | Papaipema cataphracta (Grt.) | RICHLAND | Richwood Twp. | 16 Sep 1998 | JCP |
| 9472 | Papaipema harrisii (Grt.) | WAUSHARA | Lunch Creek Fen | 11 Sep 1998 | TR |
| 9472 | Papaipema harrisii (Grt.) | WAUSHARA | Wild Rose | 26 Aug 1998 | TR |
| 9482 | Papaipema speciosissima (G. & R.) | Marquette | Comstock Bog SNA | 28 Aug 1998 | LAF |
| 9482 | Papaipema speciosissima (G. & R.) | WAUSHARA | Bass Lake Fen SNA | 26 Aug 1998 | TR |
| 9485 | Papaipema baptisiae (Bird) | Columbia | Rocky Run Oak Savanna SNA | 10 Aug 1998 | TR |
| 9485 | Papaipema baptisiae (Bird) | WAUSHARA | White River Wildlife Area | 18 Sep 1998 | TR |
| 9486 | Papaipema birdi (Dyar) | Green | Brooklyn State Wildlife Area | 10 Sep 1998 | TR |
| 9490 | Papaipema nepheleptena (Dyar) | RICHLAND | Richwood Twp. | 16 Sep 1998 | JCP |
| 9490 | Papaipema nepheleptena (Dyar) | WAUSHARA | Wild Rose | 18 Sep 1998 | TR |
| 9490 | Papaipema nepheleptena (Dyar) | WAUSHARA | Bass Lake Fen SNA | 31 Aug 1998 | TR |
| 9493 | Papaipema appassionata (Harv.) | LANGLADE | Summit Lake | 25 Aug 1998 | JCP |
| 9493 | Papaipema appassionata (Harv.) | Marquette | Comstock Bog SNA | 28 Aug 1998 | JCP |
| 9493 | Papaipema appassionata (Harv.) | WAUSHARA | Bass Lake Fen SNA | 31 Aug 1998 | TR |
| 9495 | Papaipema furcata (Sm.) | WAUSHARA | Wild Rose | 11 Sep 1998 | TR |
| 9497 | Papaipema necopina (Grt.) | Green | Brooklyn State Wildlife Area | 28 Aug 1998 | TR |
| 9500 | Papaipema maritima Bird | WAUSHARA | White River Wildlife Area | 18 Sep 1998 | TR |
| 9500 | Papaipema maritima Bird | WAUSHARA | Wild Rose | 5 Sep 1998 | TR |
| 9501 | Papaipema eupatoriifolia (Lyman) | OCONTO | Pensaukee | 12 Sep 1998 | LAF |
| 9501 | Papaipema eupatoriifolia (Lyman) | RICHLAND | Richwood Twp. | 16 Sep 1998 | JCP |
| 9501 | Papaipema eupatoriifolia (Lyman) | WAUSHARA | Lunch Creek Fen | 18 Sep 1998 | TR |
| 9501 | Papaipema eupatoriifolia (Lyman) | WAUSHARA | Wild Rose | 29 Sep 1998 | TR |
| 9502 | Papaipema netta (Stkr.) | WAUSHARA | Wild Rose | 26 Aug 1998 | TR |
| 9503 | Papaipema rigida (Grt.) | Marquette | Comstock Bog SNA | 28 Aug 1998 | LAF |
| 9503 | Papaipema rigida (Grt.) | WAUSHARA | Wild Rose | 11 Sep 1998 | TR |
| 9503 | Papaipema rigida (Grt.) | WAUSHARA | Lunch Creek Fen | 26 Aug 1998 | TR |

| MONA No. | SPECIES NAME | COUNTY | SITE NAME | DATE | CONTR |
|----------|--|-------------|-----------------------------|-------------|-------|
| 9506 | <i>Papaipema sciata</i> Bird | WAUSHARA | Lunch Creek Fen | 18 Sep 1998 | TR |
| 9509 | <i>Papaipema unimoda</i> (Sm.) | BURNETT | Kohler-Peet Barrens SNA | 24 Aug 1998 | LAF |
| 9509 | <i>Papaipema unimoda</i> (Sm.) | DOUGLAS | Superior | 23 Aug 1998 | LAF |
| 9509 | <i>Papaipema unimoda</i> (Sm.) | OCONTO | Pensaukee | 12 Sep 1998 | LAF |
| 9509 | <i>Papaipema unimoda</i> (Sm.) | WAUSHARA | Lunch Creek Fen | 11 Sep 1998 | TR |
| 9509 | <i>Papaipema unimoda</i> (Sm.) | WAUSHARA | Bass Lake Fen SNA | 31 Aug 1998 | TR |
| 9516 | <i>Hydraecia stramentosa</i> Gn. | MARQUETTE | Comstock Bog SNA | 28 Aug 1998 | JCP |
| 9522 | <i>Iodopepla u-album</i> (Gn.) | MARQUETTE | Comstock Bog SNA | 21 May 1998 | LAF |
| 9523 | <i>Bellura gortynoides</i> Wlk. | WAUSHARA | Bass Lake Fen SNA | 15 Aug 1998 | TR |
| 9524 | <i>Bellura brehmei</i> (B. & McD.) | PRICE | Fifield Twp. | 19 Jun 1998 | LAF |
| 9548 | <i>Conservula anodonta</i> (Gn.) | Marquette | Comstock Bog SNA | 10 Jul 1998 | LAF |
| 9548 | <i>Conservula anodonta</i> (Gn.) | WAUSHARA | Lunch Creek Fen | 1 Jul 1998 | TR |
| 9551 | <i>Enargia mephisto</i> Franc. | WAUSHARA | Lunch Creek Fen | 1 Jul 1998 | TR |
| 9557 | <i>Chytonix sensilis</i> Grt. | WAUSHARA | Wedde Creek SFA | 17 Jul 1998 | TR |
| 9629 | <i>Fagitalia littera</i> (Gn.) | Marquette | Comstock Bog SNA | 10 Jul 1998 | LAF |
| 9629 | <i>Fagitalia littera</i> (Gn.) | WAUSHARA | Bass Lake Fen SNA | 17 Jun 1998 | TR |
| 9629 | <i>Fagitalia littera</i> (Gn.) | WAUSHARA | Lunch Creek Wildlife Area | 17 Jun 1998 | TR |
| 9637 | <i>Magusa orbifera</i> (Wlk.) | Dane | | 25 Oct 1998 | LAF |
| 9640 | <i>Amphipyra glabella</i> (Morr.) | WAUSHARA | Lunch Creek Fen | 17 Jul 1998 | TR |
| 9649 | <i>Athetis mendosa</i> (McD.) | DOUGLAS | Superior | 23 Aug 1998 | LAF |
| 9754 | <i>Plagiomimicus ptyochromus</i> Grt. | Dane | Walking Iron Park | 29 Jul 1998 | TR |
| 9887.1 | <i>Lithophane franclemonti</i> Metzler | Dane | Festge Park | 28 Mar 1998 | TR |
| 9887.1 | <i>Lithophane franclemonti</i> Metzler | GRANT | Cassville | 28 Mar 1998 | LAF |
| 9887.1 | <i>Lithophane franclemonti</i> Metzler | TREMPEALEAU | Trempealeau | 26 Mar 1998 | LAF |
| 9891 | <i>Lithophane amanda</i> (Sm.) | TREMPEALEAU | Trempealeau | 24 Apr 1998 | JCP |
| 9892 | <i>Lithophane disposita</i> Morr. | Dane | Festge Park | 28 Mar 1998 | TR |
| 9892 | <i>Lithophane disposita</i> Morr. | TREMPEALEAU | Trempealeau | 26 Mar 1998 | LAF |
| 9946 | <i>Epigaea decliva</i> (Grt.) | MARQUETTE | Comstock Bog SNA | 16 Oct 1998 | LAF |
| 9946 | <i>Epigaea decliva</i> (Grt.) | TREMPEALEAU | Trempealeau | 24 Oct 1998 | JCP |
| 9946 | <i>Epigaea decliva</i> (Grt.) | WAUSHARA | Wild Rose | 29 Sep 1998 | TR |
| 9967 | <i>Hillia iris</i> (Zett.) | OCONTO | Pensaukee | 12 Sep 1998 | LAF |
| 9999 | <i>Brachylomia discinigra</i> (Wlk.) | LANGLADE | Summit Lake | 26 Aug 1998 | JCP |
| 10008 | <i>Feralia comstocki</i> (Grt.) | TREMPEALEAU | Tamarack Creek Bog SNA | 24 Apr 1998 | LAF |
| 10059 | <i>Homohadena badistriga</i> (Grt.) | GRANT | Cassville | 26 Jun 1998 | LAF |
| 10108 | <i>Oncocnemis viriditincta</i> Sm. | BURNETT | Kohler-Peet Barrens SNA | 24 Aug 1998 | LAF |
| 10434 | <i>Faronta rubripennis</i> (G. & R.) | Green | Albany | 14 Aug 1998 | RJB |
| 10440 | <i>Leucania linita</i> Gn. | WAUSHARA | Bass Lake Fen SNA | 17 Jun 1998 | TR |
| 10694 | <i>Euptychocnemis fimbriaris</i> (Gn.) | MARQUETTE | Comstock Bog SNA | 18 Sep 1998 | JCP |
| 10738 | <i>Euxoa mimallonis</i> (Grt.) | WAUSHARA | White River Wildlife Area | 11 Sep 1998 | TR |
| 10755 | <i>Euxoa declarata</i> (Wlk.) | MARQUETTE | Comstock Bog SNA | 28 Aug 1998 | LAF |
| 10755 | <i>Euxoa declarata</i> (Wlk.) | WAUSHARA | White River Wildlife Area | 15 Aug 1998 | TR |
| 10801 | <i>Euxoa ochrogaster</i> (Gn.) | DOUGLAS | Superior | 23 Aug 1998 | LAF |
| 10817 | <i>Euxoa obeliscoidea</i> (Gn.) | Columbia | Rocky Run Oak Savanna SNA | 10 Aug 1998 | TR |
| 10831 | <i>Euxoa niveilinea</i> (Grt.) | MARQUETTE | Comstock Bog SNA | 28 Aug 1998 | LAF |
| 10863 | <i>Euxoa manitobana</i> McD. | Columbia | Rocky Run Oak Savanna SNA | 7 Jul 1998 | TR |
| 10869 | <i>Richia grotei</i> (Franc. & Todd) | COLUMBIA | Rocky Run Oak Savanna SNA | 10 Aug 1998 | TR |
| 10869 | <i>Richia grotei</i> (Franc. & Todd) | GREEN | Albany | 14 Aug 1998 | RJB |
| 10997 | <i>Cerastis fishii</i> (Grt.) | BURNETT | Webb Lake Twp. | 16 May 1998 | LAF |
| 11012.1 | <i>Noctua pronuba</i> (L.) | GRANT | Cassville | 29 Aug 1998 | JCP |
| 11012.1 | <i>Noctua pronuba</i> (L.) | VILAS | Boulder Junction | 2 Aug 1998 | JCP |
| 11012.1 | <i>Noctua pronuba</i> (L.) | WAUSHARA | Wedde Creek SFA | 1 Jul 1998 | TR |
| 11012.1 | <i>Noctua pronuba</i> (L.) | WAUSHARA | Bass Lake Fen SNA | 26 Jul 1998 | TR |
| 11063 | <i>Pyrrhia umbra</i> (Hufn.) | COLUMBIA | Rocky Run Oak Savanna SNA | 7 Jul 1998 | TR |
| 11072 | <i>Heliothis phloxiphagus</i> G. & R. | Dane | Walking Iron Park | 15 May 1998 | TR |
| 11072.1 | <i>Heliothis acesias</i> F. & R. | Dane | Walking Iron Park | 15 Jul 1998 | TR |
| 11072.1 | <i>Heliothis acesias</i> F. & R. | WAUSHARA | White River Wildlife Area | 17 Jul 1998 | TR |
| 11072.1 | <i>Heliothis acesias</i> F. & R. | WAUSHARA | Bass Lake Fen SNA | 26 Jul 1998 | TR |
| 11095 | <i>Schinia indiana</i> (Smith) | Jackson | Jackson CF & Black River SF | 02-Jun-98 | SAS |
| 11148 | <i>Schinia oleagina</i> Morr. | Columbia | Rocky Run Oak Savanna SNA | 10 Aug 1998 | TR |
| 11149 | <i>Schinia trifascia</i> Hbn. | Marquette | Comstock Bog SNA | 28 Aug 1998 | JCP |
| 11174 | <i>Schinia lucens</i> (Morr.) | Waushara | Wedde Creek SFA | 1 Jul 1998 | TR |
| 11177 | <i>Schinia nundina</i> (Drury) | Columbia | Rocky Run Oak Savanna SNA | 22 Jul 1998 | TR |

Address Correction Requested

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With 3,000 volunteers, Urquhart had been tagging and monitoring the annual flights south but had not learned exactly where the Monarchs spent the winter. Brugger recalled that he had once driven through a sudden storm of Monarch butterflies during a trip through the volcanic mountains west of Mexico City. He related this experience to Urquhart by letter and, ultimately, was talked into returning to the area to search for the butterflies. THEN IT HAPPENED! On January 2, 1975.

 Brugger, along with his wife, Catalina, were making their way through a forest of Oyamel Firs. When they reached the 10,000 ft. level, all of a sudden they became aware that the trees were covered with Monarchs. Later estimates indicated that there were as many as 4 million butterflies per acre.

Brugger's discovery opened the flood gates for tourists, as they

flocked to see the beauty of the massed orange and black Monarchs in their winter sanctuary. This was a colorful splendor which was not to be visualized by Brugger, however. He was totally color-blind and could only see the Monarchs in shades of gray.

Unfortunately, we all suffered a great loss when Brugger died at his home in Austin, Texas on November 25, 1998 at the age of 80. ☺

Although Kenneth Brugger never obtained a college degree, his mathematical genius and mechanical aptitude served him well. He was chief engineer for Jockey International's worldwide knitting operations, which involved designing, installing and working with innovative textile machines. One of the machines was the compactor, which compressed cotton fibers so that when they would spring back in the wash, the machine compensated for the inevitable shrinkage. If Brugger had not picked up that Mexican newspaper on that momentous day in 1973, his achievements might have been limited to underwear.

BUG BYTES

Backyard and Field Observations

A n e-mail was received from Pat Seawell, in San Antonio, Texas on March 5, 1999. Compared to our climate, where we are still looking at prospects of more snow before we actually can say spring is here, she has butterflies nectaring on blooming plants in her yard. Here is a paragraph from her e-mail:

"Yesterday, while clipping the dead Passion vines, I spied three- or four-day-old Gulf Fritillary caterpillars on fresh new sprouts. There are also about 40 Fritillary eggs on the outside of the net-covered protective custody cage I built last summer. I'm going to have my hands full when they all hatch and must be transferred to plants!" ☺*

**Host plant for Gulf Fritillaries.*

Please send any observations for our future BUG BYTES column to: Janice Stiefel, W6311 Mullet Lane, Plymouth, WI 53073 or e-mail: jstiefel@excel.net